

Shima P Damodaran

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

21 papers	1,664 citations	16 h-index	21 g-index
21 ext. papers	1,812 ext. citations	4 avg, IF	5.06 L-index

#	Paper	IF	Citations
21	Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures. <i>Applied Physics Letters</i> , 2007 , 91, 203108	3.4	276
20	Evidence for enhanced thermal conduction through percolating structures in nanofluids. <i>Nanotechnology</i> , 2008 , 19, 305706	3.4	194
19	Thermal properties of nanofluids. <i>Advances in Colloid and Interface Science</i> , 2012 , 183-184, 30-45	14.3	182
18	Nanofluid with tunable thermal properties. <i>Applied Physics Letters</i> , 2008 , 92, 043108	3.4	178
17	Synthesis of Aqueous and Nonaqueous Iron Oxide Nanofluids and Study of Temperature Dependence on Thermal Conductivity and Viscosity. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18825-18833	3.8	158
16	Role of microconvection induced by Brownian motion of nanoparticles in the enhanced thermal conductivity of stable nanofluids. <i>Applied Physics Letters</i> , 2009 , 94, 223101	3.4	143
15	Tuning of Thermal Conductivity and Rheology of Nanofluids Using an External Stimulus. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20097-20104	3.8	117
14	Magnetically controllable nanofluid with tunable thermal conductivity and viscosity. <i>Applied Physics Letters</i> , 2009 , 95, 133112	3.4	100
13	Influence of aggregation on thermal conductivity in stable and unstable nanofluids. <i>Applied Physics Letters</i> , 2010 , 97, 153113	3.4	79
12	Role of Thermal Conductivity of Dispersed Nanoparticles on Heat Transfer Properties of Nanofluid. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 980-988	3.9	51
11	Graphene oxide-wrapped magnetite nanoclusters: A recyclable functional hybrid for fast and highly efficient removal of organic dyes from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2176-2190	6.8	42
10	A millifluidic study of cell-to-cell heterogeneity in growth-rate and cell-division capability in populations of isogenic cells of <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2015 , 10, e0118987	3.7	38
9	Mesoporous magnetite nanoparticle-decorated graphene oxide nanosheets for efficient electrochemical detection of hydrazine. <i>Journal of Materials Science</i> , 2019 , 54, 4073-4088	4.3	27
8	Size-controlled synthesis of superparamagnetic magnetite nanoclusters for heat generation in an alternating magnetic field. <i>Journal of Molecular Liquids</i> , 2019 , 281, 315-323	6	22
7	Novel Nanofluids Based on Magnetite Nanoclusters and Investigation on Their Cluster Size-Dependent Thermal Conductivity. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6918-6929	3.8	21
6	Synthesis, Characterization, Thermal Conductivity and Rheological Studies in Magnetite-Decorated Graphene Oxide Nanofluids. <i>Journal of Nanofluids</i> , 2018 , 7, 11-20	2.2	18
5	Graphene oxide based highly sensitive electrochemical sensor for detection of environmental pollutants and biomolecules. <i>Materials Research Express</i> , 2019 , 6, 085548	1.7	9

4	Graphene oxide-mesoporous iron oxide nanohybrid: an efficient reusable nanoadsorbent for the removal of organic dyes from wastewater. <i>Materials Research Express</i> , 2019 , 6, 0850f8	1.7	6
3	Mesoporous Magnetite Nanoclusters as Efficient Nanocarriers for Paclitaxel Delivery. <i>ChemistrySelect</i> , 2020 , 5, 9261-9268	1.8	2
2	Tuning magnetic heating efficiency of colloidal dispersions of iron oxide nano-clusters by varying the surfactant concentration during solvothermal synthesis. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119444	6	1
1	Novel Nanohybrid Containing Magnetite Nanocluster-Decorated Reduced Graphene Oxide Nanosheets for Heat Transfer Applications. <i>ChemistrySelect</i> , 2021 , 6, 6698-6706	1.8	